



DEPARTMENT OF TRANSPORTATION

Pipeline and Hazardous Materials Safety Administration

[Docket No. PHMSA-2017-0108 (Notice No. 2021-07)]

Hazardous Materials: Notification of Termination of Certain Explosive Classification

Approvals due to Non-Compliance with the UN Model Regulation Test Series 6(d)

Requirement

AGENCY: Pipeline and Hazardous Materials Safety Administration (PHMSA), DOT.

ACTION: Notification of termination of explosive approvals.

SUMMARY: PHMSA has terminated the Explosive (EX) classification approvals listed below.

PHMSA published a *Federal Register* Notice on May 4, 2021, notifying the approval holders listed below that PHMSA intended to terminate their approvals for failure to provide proof that the approved explosives successfully completed the UN Test Series 6(d) of Part I of the UN Manual of Tests and Criteria. The notice advised approval holders that they must either show why their approvals should not be terminated or apply for a modification of their approval prior to June 3, 2021.

FOR FURTHER INFORMATION CONTACT: Mrs. Harpreet Singh, Chief, Energetic Materials Branch, Sciences and Engineering Division, 202-366-4535, PHMSA, 1200 New Jersey Avenue SE., Washington, DC 20590-0001.

SUPPLEMENTARY INFORMATION:

I. Introduction

The Pipeline and Hazardous Materials Safety Administration's (PHMSA) Office of Hazardous Materials Safety (OHMS) provides notice of the termination of the approvals listed below. The below-listed approval holders failed to provide evidence that their explosives successfully passed UN Test Series 6(d) of Part I of the UN Manual of Tests and Criteria (UN 6(d) testing) as required by 49 CFR 172.102, Special Provision 347.

Publication in the *Federal Register* is an authorized method for PHMSA to serve the approval holders in accordance with 49 CFR 105.35(a)(3). The approval holders listed below failed to submit evidence that the UN 6(d) testing had been successfully completed and failed to apply for a modification of their approval. Therefore, PHMSA terminated their approvals, effective June 3, 2021.

II. Background

Final rule HM-2150¹ amended Special Provision 347 to require successful completion of UN 6(d) testing. This change affected explosives classified as Division 1.4S hazardous materials and impacted UN Numbers UN0349, UN0367, UN0384, and UN0481. This requirement became effective for transportation by aircraft under the International Civil Aviation Organization (ICAO) on January 1, 2019; for transportation by vessel under the International Maritime Organization (IMO) on January 1, 2020; and for domestic highway and rail transportation on May 10, 2021. PHMSA attempted to contact the affected approval holders in October 2020 via a Safety Advisory Notice issued from the PHMSA EX Portal to alert holders of the May 10, 2021, compliance deadline. On May 4, 2021, PHMSA issued a Federal Register Notice² [Docket No. PHMSA-2017-0108, Notice No. 2021-03] which notified the approval holders of PHMSA's intent to terminate all approvals that failed to provide PHMSA with documentation showing that the UN 6(d) test had been successfully completed by June 3, 2021. As noted above, publication in the Federal Register is an authorized method for PHMSA to serve the approval holders in accordance with 49 CFR 105.35(a)(3). The approval holders listed below failed to submit evidence that the UN 6(d) testing had been successfully completed and failed to apply for a modification of their approval. Therefore, PHMSA terminated their approvals, effective June 3, 2021. As of July 2021, PHMSA had not received any records that the required UN 6(d) testing had been successfully completed for the below-listed EX number(s).

¹ 85 FR 27810 (May 11, 2020).

² 86 FR 23782 (May 4, 2021).

III. Action

PHMSA terminated the below EX classification approvals in accordance with § 107.713(b)(1).

IV. Terminated Approvals

EX approval holders are listed in alphabetical order.

EX Number	UN Number	EX Approval Holder
EX1999100239	UN0367	Accurate Arms Company, Inc.
EX1988040100	UN0367	Accurate Energetic Systems, LLC
EX1988040101	UN0367	Accurate Energetic Systems, LLC
EX1989110272	UN0367	Accurate Energetic Systems, LLC
EX1989110427	UN0481	Accurate Energetic Systems, LLC
EX1989110428	UN0481	Accurate Energetic Systems, LLC
EX1989110429	UN0481	Accurate Energetic Systems, LLC
EX1989110431	UN0481	Accurate Energetic Systems, LLC
EX1989110432	UN0481	Accurate Energetic Systems, LLC
EX1989110433	UN0481	Accurate Energetic Systems, LLC
EX1989110434	UN0481	Accurate Energetic Systems, LLC
EX1989110435	UN0481	Accurate Energetic Systems, LLC
EX1989110437	UN0481	Accurate Energetic Systems, LLC
EX1990020001	UN0367	Action Manufacturing Company
EX1995070012	UN0367	Action Manufacturing Company
EX1995070013	UN0367	Action Manufacturing Company
EX1998110101	UN0367	Action Manufacturing Company
EX201302610	UN0367	Action Manufacturing Company
EX1990050150	UN0367	Aerojet Propulsion Division (APD)
EX2014060245	UN0349	Aerojet Rocketdyne, Inc.
EX2005030114	UN0349	Aircraft Interior Products Goodrich Corporation
EX1990010215	UN0367	Alliant Techsystems (ATK), formerly Thiokol Corporation, Elkton Division
EX1988090082	UN0367	Alliant Techsystems, Inc. (ATK)
EX1989050056	UN0367	Alliant Techsystems Operations LLC
EX2007110352	UN0367	Alliant Techsystems Operations LLC
EX1989100162	UN0367	Alliant Techsystems Operations LLC
EX2009010092	UN0349	Alliant Techsystems Operations LLC
EX2013040297	UN0481	Alliant Techsystems Operations LLC.
EX1991050098	UN0367	Alliant Techsystems, Inc.
EX1991050099	UN0367	Alliant Techsystems, Inc.
EX1988040026	UN0367	Alliant Techsystems, Inc. (formerly Honeywell, Inc.)
EX1990100007	UN0367	Alliant Techsystems, Inc. (formerly Honeywell, Inc.)
EX1990100008	UN0367	Alliant Techsystems, Inc. (formerly Honeywell, Inc.)
EX2004010221	UN0349	American Airlines, Inc.

EX2018042084	UN0349	Armtec Defense Products Co.
EX2008040391	UN0349	Austin Powder Company
EX1994120113	UN0384	Baker Hughes INTEQ (Owen Compliance Services, Inc.)
EX1990080103	UN0367	BEI Defense Systems Company, Inc.
EX1990080105	UN0367	BEI Defense Systems Company, Inc.
EX2001050157	UN0367	BF Goodrich Aerospace
EX2019022522	UN0349	Brazilian Government
EX2018012130	UN0349	Brazilian Government
EX1997070025	UN0481	Cambridge Isotope Laboratories, Inc. (CIL)
EX1997070026	UN0481	Cambridge Isotope Laboratories, Inc. (CIL)
EX1997070027	UN0481	Cambridge Isotope Laboratories, Inc. (CIL)
EX1997080006	UN0481	Cambridge Isotope Laboratories, Inc. (CIL)
EX1997080007	UN0481	Cambridge Isotope Laboratories, Inc. (CIL)
EX1997080008	UN0481	Cambridge Isotope Laboratories, Inc. (CIL)
EX2018062063	UN0349	Captive Technologies
EX2009070004	UN0367	Cartridge Actuated Devices, Inc.
EX2017080149	UN0481	Combined Tactical Systems, Inc.
EX1997070024	UN0481	Crescent Chemical Company
EX1997070068	UN0481	Crescent Chemical Company
EX1997070069	UN0481	Crescent Chemical Company
EX1997070070	UN0481	Crescent Chemical Company
EX1997070071	UN0481	Crescent Chemical Company
EX1997070072	UN0481	Crescent Chemical Company
EX1997070073	UN0481	Crescent Chemical Company
EX1997070074	UN0481	Crescent Chemical Company
EX1997070075	UN0481	Crescent Chemical Company
EX1997070076	UN0481	Crescent Chemical Company
EX1997070077	UN0481	Crescent Chemical Company
EX1997070078	UN0481	Crescent Chemical Company
EX1997070079	UN0481	Crescent Chemical Company
EX1996020030	UN0481	Dangerous Goods Management
EX1998020066	UN0481	Dangerous Goods Management
EX1998110137	UN0349	De La Mare Engineering, Inc.
EX1999060129	UN0349	Delta Defense, Inc.
EX2002060189	UN0367	Department of Energy
EX1992030149	UN0367	Department of Energy
EX1985030145	UN0367	Department of Energy
EX1988020258	UN0367	Department of Energy
EX1998050150	UN0349	Dynamit Nobel GmbH
EX1998050151	UN0349	Dynamit Nobel GmbH
EX1997120152	UN0481	Dynamit Nobel Wien GmbH
EX1998050065	UN0349	Dyno Nobel North America, (Formerly, The Ensign-Bickford Company)
EX1998070014	UN0349	Dyno Nobel North America, (Formerly, The Ensign-Bickford Company)
EX1998070015	UN0349	Dyno Nobel North America, (Formerly, The Ensign-Bickford Company)
EX1998070016	UN0349	Dyno Nobel North America, (Formerly, The Ensign-Bickford Company)

EX1999010231	UN0349	Dyno Nobel North America, (Formerly, The Ensign-Bickford Company)
EX1999010232	UN0349	Dyno Nobel North America, (Formerly, The Ensign-Bickford Company)
EX2007060067	UN0349	Dyno Nobel, Inc.
EX1999010179	UN0349	Dyno Nobel, Inc. (formerly IRECO, Incorporated)
EX1994040159	UN0349	Edison Giocattoli, S.p.a.
EX2011080094	UN0481	Energy Technical Systems, Inc.
EX2014071026	UN0349	Esterline Defense Technologies
EX2014030181	UN0349	Esterline Defense Technologies
EX2015030271	UN0349	Esterline Defense Technologies
EX2013090807	UN0349	Esterline Defense Technologies (Armtec Defense Products Co.)
EX1987040167A	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1987070022A	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1988090072A	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1989030240A	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1989120002A	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1991080167	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1991120107	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1991120108	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1991120109	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1991120110	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992010103	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992010118	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992010119	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992010120	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992020188	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030091	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030092	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030093	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030094	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030095	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030096	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030097	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030098	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030099	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030100	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030101	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030102	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030103	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030104	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030105	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030106	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030107	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030108	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030109	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030110	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030111	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX1992030112	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)

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EX1994100006	UN0367	ET, Inc. (formerly Explosive Technology, Inc.)
EX2014080308	UN0481	ETA S.A.
EX1989040015	UN0367	General Dynamics Ordnance Systems, Inc.
EX2004120201	UN0367	Goodrich Corporation Aircraft Interior Products Propulsion System
EX2004120266	UN0367	Goodrich Corporation Aircraft Interior Products Propulsion System
EX2005030106	UN0367	Goodrich Corporation Aircraft Interior Products Propulsion System
EX2018062079	UN0349	Government of Argentina
EX2014010162	UN0349	Government of Brazil
EX2014030546	UN0349	Government of Canada, Department of National Defence (DND)
EX2015020468	UN0349	Government of Canada, Department of National Defence (DND)
EX2016010220	UN0367	Government of Chile
EX2011060808	UN0367	Government of Egypt
EX2012090400	UN0367	Government of Finland
EX2012111048	UN0367	Government of Finland
EX2013050931	UN0367	Government of Finland
EX2013050933	UN0367	Government of Finland
EX2013050934	UN0367	Government of Finland
EX2013050935	UN0367	Government of Finland
EX2013050937	UN0367	Government of Finland
EX2013050938	UN0367	Government of Finland
EX2013050944	UN0367	Government of Finland
EX2016110903	UN0367	Government of Finland
EX2016120102	UN0367	Government of Finland
EX2012080134	UN0367	Government of Finland, Finnish Air Force Materiel Command
EX2012080135	UN0367	Government of Finland, Finnish Air Force Materiel Command
EX2012080136	UN0367	Government of Finland, Finnish Air Force Materiel Command
EX2012080137	UN0367	Government of Finland, Finnish Air Force Materiel Command
EX2012080138	UN0367	Government of Finland, Finnish Air Force Materiel Command
EX2013040878	UN0367	Government of Finland, Finnish Air Force Materiel Command
EX2012080132	UN0367	Government of Finland, Finnish Materiel Command
EX2012080130	UN0367	Government of Finland, Finnish Materiel Command
EX2012080133	UN0367	Government of Finland, Finnish Materiel Command
EX2012080131	UN0367	Government of Finland, Finnish Materiel Command
EX2019082696	UN0367	Government of Indonesia
EX2015100860	UN0367	Government of Israel, Ministry of Defense
EX2016110139	UN0367	Government of Oman
EX2016110837	UN0367	Government of Romania
EX2009110194	UN0349	Government of Spain
EX1996110231	UN0481	Government of Switzerland

EX2013090134	UN0367	Government of Switzerland
EX2013100569	UN0367	Government of Switzerland
EX2013120494	UN0367	Government of Switzerland
EX2013121238	UN0367	Government of Switzerland
EX2014020631	UN0367	Government of Switzerland
EX2014050390	UN0367	Government of Switzerland
EX2014080653	UN0367	Government of Turkey
EX2014080655	UN0367	Government of Turkey
EX2019042048	UN0349	Harris Corporation
EX1996090033	UN0349	HFI Pyrotechnics Inc
EX1991020110	UN0367	Hi-Shear Technology Corporation
EX1995100062	UN0367	Hughes Missile Systems Co.
EX2000100140	UN0367	IMI Services USA, Inc.
EX2003090038	UN0367	IMI Services USA, Inc.
EX2003090039	UN0367	IMI Services USA, Inc.
EX2003090040	UN0367	IMI Services USA, Inc.
EX2006020597	UN0367	IMI Services USA, Inc.
EX2006030376	UN0367	IMI Services USA, Inc.
EX2006030377	UN0367	IMI Services USA, Inc.
EX2006090071	UN0481	IMI Services USA, Inc.
EX2006090072	UN0481	IMI Services USA, Inc.
EX2006090073	UN0481	IMI Services USA, Inc.
EX2006090074	UN0481	IMI Services USA, Inc.
EX2007040208	UN0367	IMI Services USA, Inc.
EX2007040209	UN0367	IMI Services USA, Inc.
EX2007040210	UN0367	IMI Services USA, Inc.
EX2007040211	UN0367	IMI Services USA, Inc.
EX2007040212	UN0367	IMI Services USA, Inc.
EX2007040214	UN0367	IMI Services USA, Inc.
EX2006120390	UN0367	International Launch Services
EX1998010222	UN0349	Ion Track Instruments
EX1989010061	UN0367	IRECO, Incorporated
EX1989010063	UN0367	IRECO, Incorporated
EX1990080009	UN0367	IRECO, Incorporated
EX2019112092	UN0367	Kaman Aerospace Corporation, Precision Products Division
EX1996010026	UN0367	KDI Precision Products, Inc.
EX1993070128	UN0384	Kilgore Flares Company, LLC (formerly Kilgore Corporation)
EX1989040062	UN0367	Kilgore Flares Company, LLC (formerly Kilgore Corporation)
EX1989040064	UN0367	Kilgore Flares Company, LLC (formerly Kilgore Corporation)
EX1989040065	UN0367	Kilgore Flares Company, LLC (formerly Kilgore Corporation)
EX1989040066	UN0367	Kilgore Flares Company, LLC (formerly Kilgore Corporation)
EX2018042083	UN0367	Kingdom of Norway
EX2012100180	UN0349	Kuwaiti Government
EX2012100261	UN0367	Kuwaiti Government

EX2012100771	UN0367	Kuwaiti Government
EX2012101234	UN0367	Kuwaiti Government
EX2012101307	UN0367	Kuwaiti Government
EX2012110071	UN0367	Kuwaiti Government
EX2012121019	UN0367	Kuwaiti Government
EX2012121020	UN0367	Kuwaiti Government
EX2014060500	UN0367	Kuwaiti Government
EX2017070003	UN0367	Kuwaiti Government
EX2010121648	UN0367	L-3 Fuzing & Ordnance Systems
EX2006060214	UN0349	Lockheed Martin Aeronautics Company
EX1998060022	UN0349	Lockheed Martin Astronautics
EX1988010203	UN0367	Lockheed Martin Corporation, Vought Systems
EX2007010486	UN0349	Lockheed Martin Missiles & Fire Control
EX2006120308	UN0349	Lockheed Martin Missiles and Fire Control
EX2014100238	UN0367	Malaysian Government
EX2014100239	UN0349	Malaysian Government
EX1988060076	UN0349	Margo Supplies, Limited
EX2007010049	UN0349	Martinez Specialties, Inc.
EX2005110342	UN0384	Mat Transport AG
EX2004090159	UN0349	Mecano-Tech, Inc.
EX1993030204	UN0384	Ministry of Defence
EX2011050296	UN0481	Missiles & Space Batteries Ltd.
EX2006100248	UN0384	Nammo Raufoss
EX2011060272	UN0367	Nammo Talley, Inc
EX1997030156	UN0349	National Aeronautics & Space Administration (NASA)
EX2019042398	UN0367	Netherlands Government, Ministry of Defence
EX2019062134	UN0367	Netherlands Government, Ministry of Defence
EX2019052212	UN0367	Netherlands Government, Ministry of Defence
EX2019062140	UN0367	Netherlands Government, Ministry of Defence
EX2019062153	UN0367	Netherlands Government, Ministry of Defence
EX2017040300	UN0384	Netherlands Ministry of Defense
EX2017102345	UN0349	Nobeltec Arms & Ammunition (PTY LTD)
EX2005060403	UN0349	NOF America Corporation
EX2006090055	UN0349	ODA Enterprises, LLC
EX1983050016	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1983100004	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1986100062	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1986110105	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987020082	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987030349	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987030349A	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987040013	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987040066	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987040066A	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987040166	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987040170	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987060001	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987060114	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987060115A	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987060273	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)

EX1987070045	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987070168	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987080060	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987080161	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987110194	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987110272	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988010167	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988030080	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988030081	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988030091	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988050276	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988060019	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988070012	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988070279	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988080020	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988080021	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988090072	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988100206	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1988110127	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1989010224	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1989010250	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1989010263	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1989020005	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1989030237	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1989060207	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1989080099	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1989090020	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1989090050	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1989110183	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1989120005	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1990010080	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1990040015	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1990090184	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1990120099	UN0367	OEA Aerospace, Inc. (formerly ET, Inc.)
EX1987110191	UN0367	OEA, Inc.
EX1987120186	UN0367	OEA, Inc.
EX1988090132	UN0367	OEA, Inc.
EX1988100184	UN0367	OEA, Inc.
EX1988110130	UN0367	OEA, Inc.
EX1988110168	UN0367	OEA, Inc.
EX2011060087	UN0349	Omnitek Partners, LLC
EX2012070226	UN0349	Omnitek Partners, LLC
EX1997040127	UN0349	Orbital Sciences Corporation
EX1997040128	UN0349	Orbital Sciences Corporation
EX1997040129	UN0349	Orbital Sciences Corporation
EX1998010044	UN0349	Orbital Sciences Corporation
EX1998010045	UN0349	Orbital Sciences Corporation
EX1981030045	UN0367	Pacific Scientific
EX2001030056	UN0367	Pacific Scientific
EX2014020516	UN0349	Pioneer Wireline Services

EX2014080306	UN0349	Polyfectos S.R.I. - Productos Experciales de Pirotechnia
EX1995020024	UN0481	Radian International LLC
EX1995020025	UN0481	Radian International LLC
EX1995020026	UN0481	Radian International LLC
EX1999040101	UN0481	Radian International LLC
EX1999040102	UN0481	Radian International LLC
EX1999040103	UN0481	Radian International LLC
EX1995020023	UN0349	Radian International LLC
EX1990040352	UN0367	Raytheon Company DBA Raytheon Systems Company
EX2007060063	UN0349	RCS Rocket Motor Components, Inc.
EX2007060065	UN0349	RCS Rocket Motor Components, Inc.
EX2007090393	UN0349	RCS Rocket Motor Components, Inc.
EX2007090404	UN0349	RCS Rocket Motor Components, Inc.
EX1998060011	UN0349	Reed-Joseph International Company
EX2013010733	UN0349	Reynolds Systems, Inc.
EX1994070004	UN0349	Rockwell International Corporation
EX2000100101	UN0349	Schlumberger
EX2001020259	UN0367	Schlumberger
EX2004050280	UN0384	Schlumberger
EX2006020514	UN0384	Schlumberger
EX1987060027	UN0349	Schlumberger Perforating and Testing Center
EX1987060283	UN0349	Schlumberger Perforating and Testing Center
EX1988060182	UN0349	Schlumberger Perforating and Testing Center
EX1994010082	UN0367	Schlumberger Perforating and Testing Center
EX1994020120	UN0367	Schlumberger Perforating and Testing Center
EX1994050292	UN0367	Schlumberger Perforating and Testing Center
EX1994060018	UN0367	Schlumberger Perforating and Testing Center
EX1995120021	UN0384	Schlumberger Perforating and Testing Center
EX1996080002	UN0384	Schlumberger Perforating and Testing Center
EX1997100012	UN0367	Schlumberger Perforating and Testing Center
EX1997100012A	UN0367	Schlumberger Perforating and Testing Center
EX1997110099	UN0367	Schlumberger Perforating and Testing Center
EX1997120090	UN0384	Schlumberger Perforating and Testing Center
EX1997120139	UN0367	Schlumberger Perforating and Testing Center
EX1998110106	UN0384	Schlumberger Perforating and Testing Center
EX1999030011	UN0367	Schlumberger Perforating and Testing Center
EX1999050168	UN0367	Schlumberger Perforating and Testing Center
EX1987060282	UN0349	Schlumberger Reservoir Completions
EX2004080087	UN0349	Schlumberger Reservoir Completions
EX2005100173	UN0349	Schlumberger Reservoir Completions
EX2006020384	UN0367	Schlumberger Reservoir Completions
EX2006060181	UN0367	Schlumberger Reservoir Completions
EX2009110196	UN0384	Schlumberger Technology Corporation
EX2010030568	UN0384	Schlumberger Technology Corporation
EX1995040042	UN0367	Schlumberger Well Services
EX2000080043	UN0349	Segutronic High Security Engineering
EX2008100269	UN0384	Special Devices, Inc.
EX2014070364	UN0367	Spectra Technologies, LLC
EX2014070661	UN0367	Spectra Technologies, LLC
EX1987070142	UN0367	Stresau Laboratory, Inc.

EX1987070145	UN0367	Stresau Laboratory, Inc.
EX1995040044	UN0481	Supelco, Inc.
EX1983040001	UN0349	Sutton AG Enterprises, Inc.
EX2006070137	UN0367	SwETech AB
EX2012081250	UN0367	Taiwan Ministry of National Defense
EX2006100253	UN0384	Talley Defense Systems
EX2017040139	UN0349	TCO AS
EX1990020056	UN0367	Tech Ord
EX1990060041	UN0367	Tech Ord
EX1990060042	UN0367	Tech Ord
EX1990060044	UN0367	Tech Ord
EX1992010063	UN0367	Tech Ord
EX1992050131	UN0367	Tech Ord
EX1992050132	UN0367	Tech Ord
EX1997020095	UN0367	Tech Ord
EX1997070061	UN0384	Tech Ord
EX1998110136	UN0349	Tech Ord
EX1999030378	UN0349	Tech Ord
EX1999070225	UN0384	Tech Ord
EX1997010051	UN0367	Tech Ord
EX2003070046	UN0349	Technical Consultants, Inc.
EX2003070046A	UN0349	Technical Consultants, Inc.
EX2003070047	UN0349	Technical Consultants, Inc.
EX1990060043	UN0367	Technical Ordnance, Inc.
EX2001020093	UN0349	The Boeing Company
EX2001030032	UN0349	The Boeing Company
EX2012111046	UN0367	The Government of Finland
EX2013050082	UN0367	The Government of the United Arab Emirates
EX2011020522	UN0384	The Netherlands Government, Ministry of Defense
EX1997090011	UN0481	Thiokol Corporation
EX2005070009	UN0349	Titan Energetics, A Division of Titan Specialties, Ltd.
EX2015010210	UN0481	Tk Holdings Inc
EX2015030140	UN0481	Tk Holdings Inc
EX2014020326	UN0367	U.S. Department of Energy
EX1986030075	UN0367	U.S. Department of Energy
EX1980120071	UN0367	U.S. Department of Energy
EX1988100144	UN0367	UniDynamics Phoenix, Inc.
EX2008060282	UN0349	United Launch Alliance
EX2010070467	UN0349	United Launch Alliance
EX2011020067	UN0349	United Launch Alliance
EX2007120480	UN0349	Universal Propulsion Company
EX2008010038	UN0367	Universal Propulsion Company
EX2003060201	UN0367	Universal Propulsion Company Seating & Propulsion Systems
EX2003080142	UN0367	Universal Propulsion Company Seating & Propulsion Systems
EX2003090231	UN0367	Universal Propulsion Company Seating & Propulsion Systems Goodrich Corporation
EX2003090233	UN0367	Universal Propulsion Company Seating & Propulsion Systems Goodrich Corporation

EX1986110195	UN0367	Universal Propulsion Company, Inc.
EX1986110196	UN0367	Universal Propulsion Company, Inc.
EX1987030012	UN0367	Universal Propulsion Company, Inc.
EX1987120084	UN0367	Universal Propulsion Company, Inc.
EX1987120090	UN0367	Universal Propulsion Company, Inc.
EX2005050019	UN0367	Universal Propulsion Company, Inc.
EX2005080064	UN0367	Universal Propulsion Company, Inc.
EX2005090495	UN0367	Universal Propulsion Company, Inc.
EX2005110388	UN0367	Universal Propulsion Company, Inc.
EX2008040079	UN0367	Universal Propulsion Company, Inc.
EX2010071106	UN0367	Universal Propulsion Company, Inc.
EX2010091304	UN0367	Universal Propulsion Company, Inc.
EX2010091328	UN0367	Universal Propulsion Company, Inc.
EX2010111451	UN0367	Universal Propulsion Company, Inc.
EX1990020341	UN0367	Universal Propulsion Company, Inc.
EX1987110204	UN0367	Universal Propulsion Company, Inc. (formerly, OEA Aerospace, Inc.)
EX1987110205	UN0367	Universal Propulsion Company, Inc. (formerly, OEA Aerospace, Inc.)
EX1987110206	UN0367	Universal Propulsion Company, Inc. (formerly, OEA Aerospace, Inc.)
EX1987110210	UN0367	Universal Propulsion Company, Inc. (formerly, OEA Aerospace, Inc.)
EX1987110212	UN0367	Universal Propulsion Company, Inc. (formerly, OEA Aerospace, Inc.)
EX2018032147	UN0349	Virgin Orbit, LLC.
EX2018072098	UN0367	Virgin Orbit, LLC.
EX2009100075	UN0349	W.T. Bell International, Inc.
EX2000090134	UN0349	W.T. Bell International, Inc., (Formerly, Specialty Completion Products LLC.)
EX2000090135	UN0349	W.T. Bell International, Inc., (Formerly, Specialty Completion Products LLC.)
EX2019022745	UN0349	Weatherford International, LLC.
EX1989030095	UN0349	Western Atlas International (form. Dresser Atlas)
EX1996100128	UN0367	Woerner Engineering, Inc.
EX2006040223	UN0367	Zaugg Elektronik AG

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